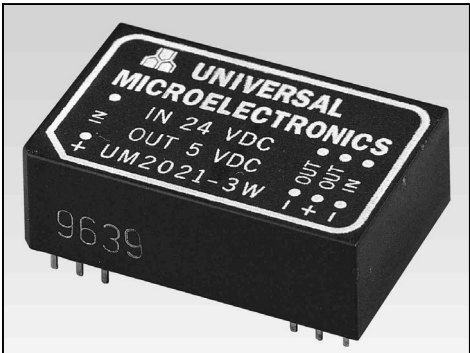


UM2000-3W SERIES

3 Watt DC-DC Converters

- ◆ 24 Pin Dip Package
- ◆ High Efficiency (up to 80%)
- ◆ Regulated Outputs
- ◆ Pi Input Filter
- ◆ 500 VDC Isolation
- ◆ Continuous Short Circuit Protection



SPECIFICATIONS

All specifications are typical at nominal line, full load and 25°C unless otherwise noted.

OUTPUT SPECIFICATIONS

Voltage Accuracy	±2.0% max.
Voltage Balance (Dual) ¹	±2.0% max.
Ripple and Noise, 20MHz BW, 3.3V	60mVp-p max.
5V	100mVp-p max.
12/15V	1% p-p max.
Temperature Coefficient	±0.05%/°C
Short Circuit Protection	Continuous
Line Regulation ²	±0.5%
Load Regulation ³	±0.5%

GENERAL SPECIFICATIONS

Efficiency	See Table
Isolation Voltage	500 VDC min.
Isolation Resistance	10 ⁸ ohms min.
Switching Frequency	100 KHz-850KHz (Depending on Loading)
Operating Temperature Range	
Ambient, None Derating	-25°C to +71°C
Cooling	Free Air Convection
Storage Temperature Range	-40°C to +100°C
Dimensions CASE A	1.25*0.8*0.4 inches (31.8*20.3*10.2mm)
Case Material	
Standard Models	Non-Conductive Black Plastic UL94V-0
Weight	15g

INPUT SPECIFICATIONS

Input Voltage Range, 12V	9-18V
24V	18-36V
48V	36-72V
Input Filter	Pi Network

NOTES:

1. For common output models.
2. Measured from high line to low line.
3. Measured from full load to 10% load.



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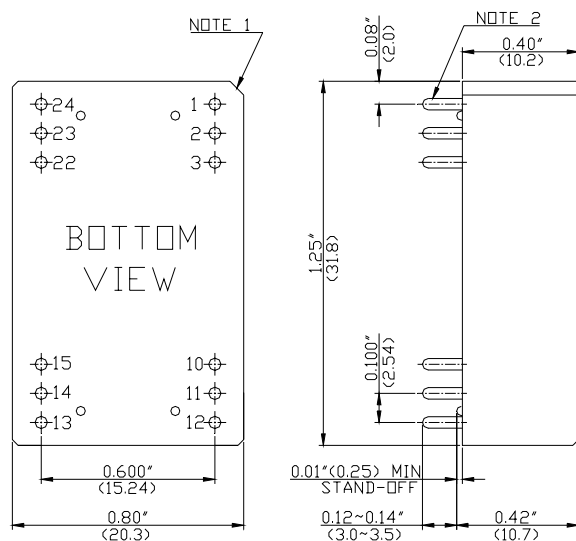
2539 W. 237TH STREET, SUITE A,
TORRANCE, CA 90505
TEL: (310) 326-7072 FAX: (310) 326-7058

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		CASE	EFFICIENCY
				NO LOAD	FULL LOAD		
UM2011-3W UM2012-3W UM2013-3W UM2014C-3W UM2015C-3W UM2016C-3W UM2017-3W	12 VDC	5 VDC 12 VDC 15 VDC ± 5 VDC ±12 VDC ±15 VDC 9 VDC	600 mA 250 mA 200 mA ±300 mA ±125 mA ±100 mA 333 mA	50 mA 50 mA 50 mA 50 mA 70 mA 80 mA 50 mA	343 mA 334 mA 334 mA 343 mA 338 mA 338 mA 333 mA	A	73% 75% 75% 73% 74% 74% 75%
UM2021-3W UM2022-3W UM2023-3W UM2024C-3W UM2025C-3W UM2026C-3W UM2027-3W		5 VDC 12 VDC 15 VDC ± 5 VDC ±12 VDC ±15 VDC 9 VDC	600 mA 250 mA 200 mA ±300 mA ±125 mA ±100 mA 333 mA	30 mA 30 mA 30 mA 35 mA 35 mA 35 mA 30 mA	167 mA 161 mA 161 mA 167 mA 163 mA 163 mA 160 mA		75% 78% 78% 75% 77% 77% 78%
UM2031-3W UM2032-3W UM2033-3W UM2034C-3W UM2035C-3W UM2036C-3W UM2037-3W UM2039-3W		5 VDC 12 VDC 15 VDC ± 5 VDC ±12 VDC ±15 VDC 9 VDC 3.3 VDC	600 mA 250 mA 200 mA ±300 mA ±125 mA ±100 mA 333 mA 500 mA	5 mA 10 mA 10 mA 10 mA 15 mA 15 mA 10 mA 5 mA	84 mA 79 mA 79 mA 84 mA 81 mA 81 mA 78 mA 48 mA		75% 80% 80% 75% 78% 78% 80% 73%

MODEL NUMBER	UM2011-3W UM2021-3W UM2031-3W UM2039-3W	UM2012-3W UM2022-3W UM2032-3W	UM2013-3W UM2023-3W UM2033-3W	UM2014C-3W UM2024C-3W UM2034C-3W	UM2015C-3W UM2025C-3W UM2035C-3W	UM2016C-3W UM2026C-3W UM2036C-3W	UM2017-3W UM2027-3W UM2037-3W
MAXIMUM ¹ CAPACITIVE LOAD (uF)	120	47	39	+56 -56	+22 -22	+18 -18	68

NOTE:1.Maximum capacitive load across the output ports should not be over following indicated values.

CASE A



PIN CONNECTIONS		
Pin	Single Output	Dual Output
1	+V Input	+V Input
2	NC*	-V Output
3	NC*	Common
10	-V Output	Common
11	+V Output	+V Output
12	-V Input	-V Input
13	-V Input	-V Input
14	+V Output	+V Output
15	-V Output	Common
22	NC*	Common
23	NC*	-V Output
24	+V Input	+V Input

* NC (NO Connection)

All dimensions in inches (mm).

Note 1: Cut-corner marking for Pin No.1

Note 2: Pin size is 0.020±0.005 inches (0.5mm) dia.

Or 0.020*0.012 inch

Note 3: Tolerance .xx =±0.04"

.xxx=±0.010"



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